CURTIS'S

BOTANICAL MAGAZINE;

OR,

Flower-Garden Displayed:

IN WHICH

The most Ornamental Foreign Plants, cultivated in the Open Ground, the Green-House, and the Stove, are accurately represented in their natural Colours.

TO WHICH ARE ADDED,

Their Names, Class, Order, Generic and Specific Characters, according to the celebrated Linnaus; their Places of Growth, and Times of Flowering:

TOGETHER WITH

THE MOST APPROVED METHODS OF CULTURE.

A W O R K

Intended for the Use of such LADIES, GENTLEMEN, and GARDENERS, as wish to become scientifically acquainted with the Plants they cultivate.

BY FOHN SIMS, M.D.

FELLOW OF THE ROYAL AND LINNEAN SOCIETIES.

VOL. XLI.

The FLOWERS, which grace their native beds,
Awhile put forth their blushing heads,
But, e'er the close of parting day,
They wither, shrink, and die away:
But THESE, which mimic skill hath made,
Nor scorehed by suns, nor killed by shade,
Shall blush with less inconstant hue,
Which ART at pleasure can renew.

LLOYD.

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MDCCCXV.



CONVOLVULUS PURPUREUS (δ.) VARIUS. STRIPED-FLOWERED BINDWEED.



Class and Order.

PENTANDRIA MONOGYNIA.

Generic Character.

Cor. campanulata, plicata. Stigm. 2. Caps. 2-locularis: loculis dispermis.

Specific Character and Synonyms.

CONVOLVULUS purpureus; (volubilis) foliis cordatis indivisis, fructibus cernuis, pedicellis incrassatis. Willd. Sp. Pl. 1. p. 852. Bot. Mag. Nis. 113 et 1005.

(8.) varius; corollis albis cæruleo-striatis.

PHILIP MILLER remarked that there were three or four permanent varieties of this species, which he had not found to change by cultivation. He enumerates one with white, another with red, and a third with pale blue flowers and white seeds. The variety figured at No. 1005 of this work is still more remarkable than any of these, and has been published by Jacquin in his Hortus Schoenbrunensis, v. 3. pl. 261, as a distinct species, under the name of Ipomæa discolor. Weinmann, in his Phytanthozaiconographia, vol. 2. tab. 414 and 415, has sigured four varieties, one of which has a considerable refemblance to our present plant, having blue and white flowers with five red bands; but the colours are not so neatly defined, being rather in blotches than stripes.

The Honourable WILLIAM HERBERT communicated the specimen from which our drawing was taken, with a remark that he had raised it from seeds for five generations, without observing any disposition in it to change its characters. We have however seen some slowers all white, and in a bed of them

at Mr. Knight's exotic nursery, during the present summer, a slower of the usual purple colour upon the very same stem with others like our drawing. This observation is decisive with respect to its claim to be considered as a distinct species.

Mr. HERBERT informs us, that it ripens seeds freely in the greenhouse, but not so readily in the open ground. This

gentleman received the feeds from Cadiz.

Requires the same treatment as the other varieties.



OXALIS VARIABILIS, var. ALBIFLORA. WHITE-FLOWERED VARIABLE WOOD-SORREL.

Class and Order.

DECANDRIA PENTAGYNIA.

Generic Character.

Cal. 5-phyllus. Petala 5, unguibus connexa. Stam. inæqualia: 5 breviora exteriora, basi connata. Caps. angulis dehiscens, 5-gona.

Specific Character and Synonyms.

OXALIS variabilis; acaulis, scapo unissoro soliis longiore slaccido, soliis ternatis subrotundis, solio intermedio cuneiformi, stylis staminibus exterioribus brevioribus. Willd. Sp. Pl. 2. p. 777. Jacq. Oxal. 89. t. 52 et 53.

(γ.) albiflora; scapis petiolorum longitudine, limbo corollæ magno albo. OXALIS purpurea (β.) foliis totis viridibus, limbo albo. Thunb. Oxal. n. 8. p. 13.

OXALIS grandiflora. Jacq. Oxal. n. 68. t. 54. ?

In the colour and fize of its flowers, our plant corresponds with the grandiflora of JACQUIN, which is probably only a variety of variabilis. The red colour on the under surface of the leaves, according to JACQUIN himself, is not constant.

We regret, that not having seen the individual plant from which our drawing was taken, we had no opportunity of examining the proportionate length of the styles and stamens, which Jacquin considers as a very important and constant character. We received however two pots of Oxalis variabilis, one with red, the other with white and pale slowers, from Messrs. Loddes; many of the slowers of which we examined with care, but were much disappointed to find that the situation of the stigmas seemed to vary according to circumstances; sometimes they were placed below the lower series of anthers,

more frequently between the two series, and now and then in faded slowers above both.

To us it appeared that, if examined in a very early state, the two series of anthers were packed close together one upon the other, and the stigmas were seen in the middle, even with the upper ones; but that in a little time the longer stamens shot above them, and the stigmas passed out between the silaments, and were then found above the lower and under the upper series of anthers, and when the days were cold, this seemed to be their permanent situation; but when the sun shone and the day was warm, or from some unknown circumstance, the shorter silaments likewise shot up above the stigmas, and these were sound below both series of anthers. It seemed too that the styles sometimes began to grow after the silaments had ceased to do so, and shot up beyond the longest stamens; but it was only in saded slowers that we found the stigmas in this situation, and not often in these.

We had no reason whatever to suppose that there could be different species in the same pot; yet, when we find so experienced a Botanist as Jacquin, afferting that he had paid the greatest attention to this subject for sive successive years, and had examined a thousand individuals without sinding the character vary, in the same species, in a single instance, we hesitate to put the same considence in our sew experiments, as we should otherwise have done, and must leave it to farther investigation.

Our drawing was made at Mr. WILLIAM GRIFFIN's, South-

Lambeth, in July last.



PITTOSPORUM VIRIDIFLORUM. GREEN-FLOWERED PITTOSPORUM.



Class and Order.

PENTANDRIA MONOGYNIA.

Generic Character.

Cal. deciduus. Petala 5, conniventia in tubum. Caps. 2—5-valvis, 2—5-locularis. Sem. tecta pulpa.

Specific Character.

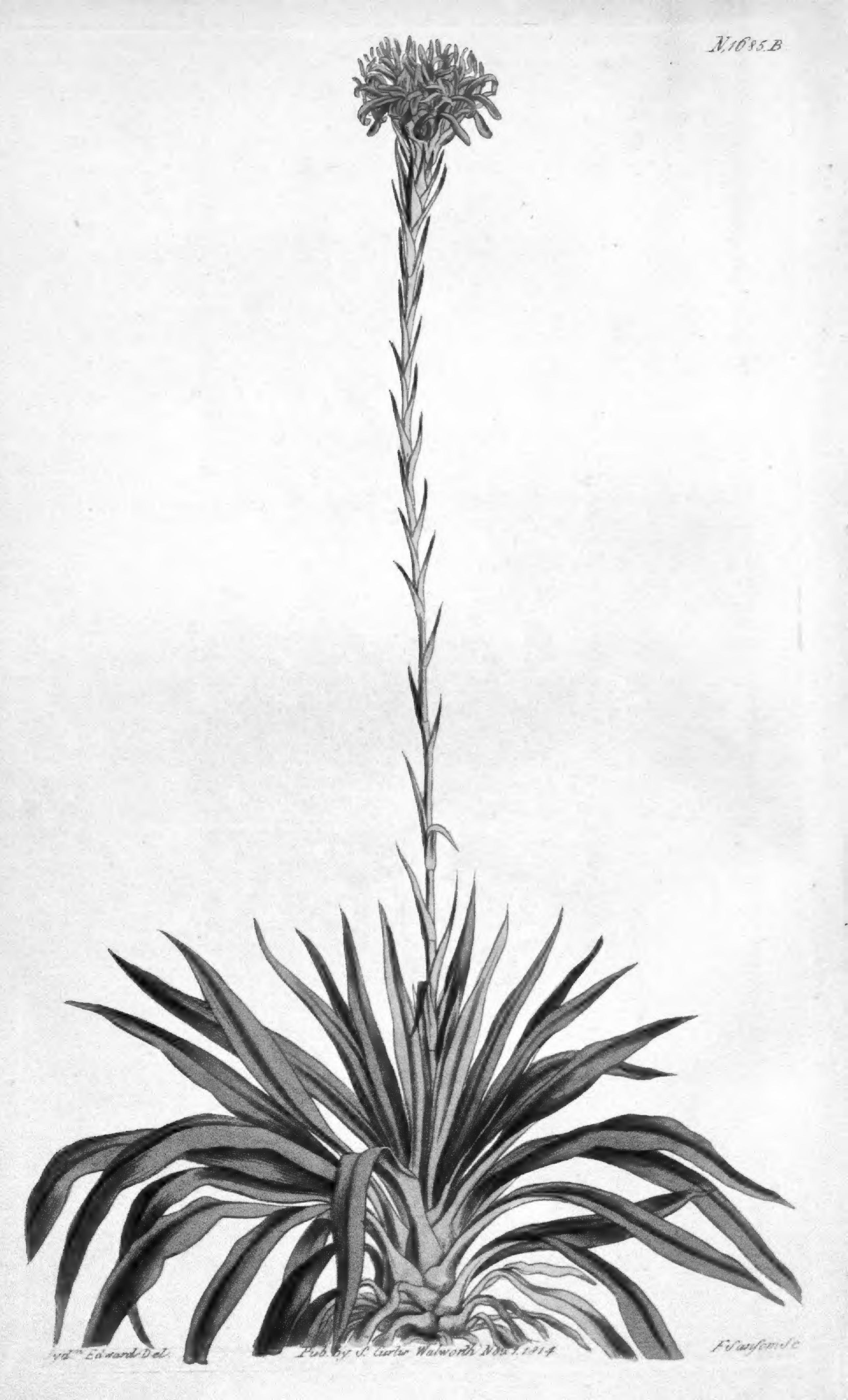
PITTOSPORUM viridiflorum; foliis obovatis retusis nitidis subtus reticulatis, panicula subglobosa terminali.

Desc. Stem shrubby: branches tuberculated. Leaves alternate, obovate, very blunt, leathery, shining green on the upper side, pale and netted-veined on the under: petioles short, thickened at the base. Inflorescence terminal, in a more or less globular panicle. Calyx deciduous, sive-(rarely sour-) leaved: leaslets sless, ovate. Corolla sive-(rarely sour-) petaled: petals lanceolate, revolute, yellowish green. Stamens sive (rarely sour): silaments half the length of the petals, inserted into a slessly receptacle: anthers arrow-shaped, acute, attached to the silament by the back. Germen oval, smooth: style erect: sligma capitate, spongy. Flowers very fragrant, the scent resembling that of a mixture of lemon and jasmine.

Native of the Cape of Good Hope. Flowers in July and August. Propagated by cuttings, or inarching on the more

common species.

We find no mention of this shrub in any author that we have consulted. Communicated by Mr. Sweet, from Messes. Malcolm and Sweet's Nursery, at Stockwell-Common.





DORYANTHES EXCELSA. GIGANTIC DORYANTHES.

Class and Order.

HEXANDRIA MONOGYNIA.

Generic Character.

Cor. supera, sexpartita decidua. Filam. basi laciniis adnata, iisque breviora. Antheræ erectæ, tetragonæ, basi cavæ extinctoriisormi assixæ. Capsula.

Specific Character and Synonyms.

DORYANTHES excelsa. Correa in Lin. Soc. Trans. v. 6. p. 211. tab. 23 et 24. Brown Prod. p. 298. Hort. Kew. ed. alt. 2. p. 303.

This magnificent plant, of the liliaceous tribe, flowered last summer in the greenhouse of the Right Hon. Charles Long, at Bromley-Hill, in Kent; probably for the first time in Europe, except the single flower produced from a portion of the stem, without roots, which had been cut many months before in New-Holland, and from which chiefly M. Correa established the genus.

From this plant we sketched the following brief description. Radical leaves about a hundred, four feet long, sword-shaped, smooth, quite entire, with a very narrow cartilaginous margin, lower ones recurved, the others erect. From the centre of these grew the stem, or scape, quite straight, ten or twelve seet high, clothed with linear-lanceolate acute leaves sheathing the stem at their base and spreading upwards. Flowers of a deep crimson or morone colour, collected in a roundish terminal bead, surrounded at the base by large, ovate-acuminate, green bractes; within there were other lanceolate bractes, of the same colour with the flowers, and separating these into fascicles of two, three, or four; two still narrower bractes accompanied each individual flower the length of the germen and peduncle. Laciniæ of the corolla six, tongue-shaped, obtuse with a nipped point. Filaments subulate, shorter than the corolla, to which they are adnate or foldered

foldered at the lower part: Ansbers the length of the free part of the filament, erect, four-cornered, hollowed at the base and affixed over the point of the filament like an extinguisher, covered with a dark green pollen. Germen straight, obscurely three-cornered: Style three-surrowed: Stigma three-lobed.

In the figure of the flower given in the Transactions of the Linnean Society, the germen is very much curved, which does

not seem to be natural to the plant.

We were informed that the stem began to shoot the preceding summer, and reached to the height of three or sour seet; that then, the winter coming on, it remained quiescent till the sollowing spring, when it again resumed its growth, and the slowers began to expand by the end of July.



DELPHINIUM GRANDIFLORUM. GREAT-FLOWERED LARKSPUR.



Class and Order.

POLYANDRIA TRIGYNIA,

Generic Character.

Cal. o. Petala 5. Nectar. 2—4-fidum, postice cornutum. Siliquæ 3 seu 1.

Specific Character and Synonyms.

DELPHINIUM grandiflorum; (tricapsulare) nectariis tetraphyllis: labellis orbiculatis subbarbatis: unguibus appendi-

culatis, foliis lineari-multipartitis.

DELPHINIUM grandissorum; nectariis diphyllis: labellis integris, sloribus subsolitariis, foliis compositis lineari-multipartitis. Sp. Pl. 749. Willd. 2. p. 1228. Miller. Ic. 2. p. 167. t. 250. f. 1.

DELPHINIUM lusitanicum glabrum, aconitifolio. Roloff

Hort. Krausian. 61. t. 3.

Descr. Root perennial. Stem erect, smooth, somewhat angular, and dichotomously branched. Radical leaves multipartite: segments narrow, channelled, pale underneath; lower cauline leaves similar; sloral 2—3-partite, or even simple. Flowers alternate on peduncles variously lengthened, distant, of a sine azure colour spotted with a dull red. Petals nine in two series: sive outer ones ovate, sour of them equal, the upper one larger and lengthened behind into a rugose spur with a bisid point: of the sour inner petals (nectarium) two are very small, sleshy, upright, rigid, channelled: two are nearly orbicular, with an oblique claw, at the base of which is a small hooked appendix; these are resserted so as to cover completely the organs of fructification, and

and are ornamented near the claw with a yellow flightly bearded fpot. Stamens many: filaments flat, narrowed upwards, and reflexed: anthers ovate, attached by the back, black with white pollen. Germens three, approximate, filky. Capfules three, erect, villous.

In the common Larkspur (Delphinium Consolida) the sour petals of the nectarium are united into one and terminate behind in a spur sheathed by that of the upper petal: in all the species these parts vary materially in form and number. In this and the related genus Aconitum, Jussieu considers the outer petals as calyx, and gives the name of petals to what Linn Euscalls nectaria.

A double variety of this species is very common in our gardens, and much admired for the splendid blue colour of its slowers. But the plant in its natural single state has been a desideratum, and has been only lately introduced from Russia, by Messrs. Whitley, Brame, and Milne, of the Fulham Nursery. We have likewise seen it at the Exotic Nursery, King's-Road. Native of Siberia; a hardy perennial; propagated by parting its roots and by seed.



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F. Panfom Vi.

NARCISSUS VIRIDIFLORUS. GREEN AUTUMNAL JONQUIL.

Generic Character.—Vide Nis. 924, 925.

Specific Character and Synonyms.

NARCISSUS viridiflorus; (uni-pluriflorus; filam. adnata; anthi. 3 tubo, 3 corona inclusæ;) foliis uno-pluribusve, junceis, tereti-attenuatis, fistulosis, lævibus, scapo simili subisometro tardioribus; pedicellis inæqualibus, erectis, a brevioribus ad pluries tubo longiora; corolla geniculato-nutante; germine tubo pluries breviore; limbo stellato, laciniis divaricatis, æqualibus, linearibus, attenuatis, planis, tubo brevioribus; corona brevissima, cupulato-rotata, sexcrenato-incisa, segmentis obtusis, subemarginatis. G.

NARCISSUS viridiflorus; Schousboe. Marok. in det danske videnskabers-selskabs skrivter. 1800. 157. tab. 2. Id. germanice a Markussen. 142. tab. 2. Roth. neue beytr. zur Botan. th. 1.

189. Id. anglice a Kænig & Sims, in Ann. Bot. 2. 26.

NARCISSUS juncifolius autumnalis flore viridi. Park. Parad. p. 94. tab. 93. fig. 6.

Descr. Bulb roundish with brown membranous coverings; leaves 1 to several, a foot or more long, as well as the scape nearly of the same size as in the common garden Jonquil; spathe lanceolately convolute, and (in specimens that have several slowers) shorter than the longer peduncles; corolla and crown of an uniform ash-green colour, segments about six lines long and one broad; style even with the longest stamens; stigmas 3; scent like that of the common Jonquil.

PARKINSON, by whom this rare and singular coloured species was cultivated amongst us nearly two centuries back, has been the first to record it. Subsequently to him, we do not find that it has been noticed, until enrolled under its present title in "The Observations on the Vegetables of Morocco" by Mr. Schousboe, a Danish Botanist, who found it growing spontaneously

fpontaneously on the Coast of Barbary and on the "neutral ground," between Gibraltar and St. Roque, in 1791—3. Its natural season of slowering, like that of Narcissus ferotimus, (a species from the same parts and of nearly similar economy) is the latter-end of autumn. In ferotinus the corolla is white, segments elliptically lanceolate, crown orange-coloured, leaves linear, channelled, scape striate, and somewhat edged. Like viridisforus, it has disappeared in our gardens, although it seems to have been the more generally known of the two, and was still in them in the time of MILLER. The specimen from which our present drawing was made, had been imported from Spain, by Dr. Thompson, and slowered this summer, for the first time, in Mr. Griffin's collection, at South-Lambeth. G.

NOTE.

Narcissus trilobus. Supra No. 945.

In the second edition of the Hortus Kewensis, this plant appears under the specific name of nutans, with a note that denies its being the trilobus of Linneus. We shall not arraign the reasoning, on which the denial is sounded; our friend, the excellent and learned writer of it, is now no more. We shall only state, that we know that he had never seen the plant; and that its identity with trilobus had been determined by comparison with the specimen of that species in the Linnean Herbarium. To any one who saw the plant, we are persuaded the description contained in the "Species Plantarum," would alone decide the point. Although Linneus calls it trilobus; he says in the specific character, that the crown is "subtristid," and in the appended note "obscurely trifid and quite entire." G.

ERRATUM.

No. 1301. vers. sol. We have omitted in the Enumeration of the Species of NARCISSUS: N. Tazzetta, No. 925; which should be inserted. G.



1688

SESAMUM INDICUM. INDIAN SESAMUM, or OILY-GRAIN.



Class and Order.

DIDYNAMIA ANGIOSPERMIA.

Generic Character.

Cal. 5-partitus. Cor. campanulata, 5-fida: lobo infimo majore. Rudimentum filamenti quinti. Stigma lanceolatum. Caps. 4locularis.

Specific Character and Synonyms.

SESAMUM indicum; caule erecto, foliis ovato-lanceolatis in-

tegris vel lobatis, pedunculisque suboppositis.

SESAMUM indicum; soliis ovato-lanceolatis: inferioribus trilobis; superioribus indivisis, caule erecto. Willd. Sp. Pl. 3. p. 359. Hort. Kew. ed. alt. 4. p. 52. Mart. Mill. Dict. Synonyma tamen plura sub orientale petenda.

VANGLO or Oil Plant. Brown Jam. p. 270.

SESAMUM. Matthiol in Diosc. lib. 2. cap. 92. Dod. Pempt. 522. Lob. Obs. 514. Ic. 2.63. Ger. emac. 1232. Dalech. Hist. 483.

SESAMUM indicum. Rumph. Amb. v. 5. p. 20. t. 76. f. 1.

SESAMUM foliis inferioribus trifidis dentatis, superioribus oblongis serratis. Brown Jam. 270.

SESAMUM alterum soliis trisidis orientale, semine obscuro.

Pluk. Alm. 344. Phyt. t. 109. f. 4.

Sesamum indicum and orientale appear to have their synonymy extremely confused. Of the older figures in wood, those which we have quoted are all copied from the original one of MATTHIOLUS; and appear to us properly to belong to this species, though generally referred to orientale, of which we know of no representation but that in the Hortus Malabaricus and the one in wood in Camerarius's Hortus copied by Parkinson, and diminutively by JOHN BAUHIN.

RUMPF

Rumpf describes the leaves to be three-lobed at the bottom of the plant, serrated in the middle, and quite entire or only sinuate at the upper part; but acknowledges that, in all these respects, they are subject to vary; their form seems therefore to be of little use in determining the species. The lower leaves of our plant were three-lobed. In the Hortus Malabaricus Sesamum orientale is drawn with leaves and peduncles alternate; in all the sigures which we have quoted, as synonyms of our plant, they are opposite, as they have been in all the genuine specimens that we have seen, except a little occasional deviation, and even then the disposition to remain opposite has been very evident.

Both this species and orientale are much cultivated in Egypt, and in the East and West-Indies, for the sake of the oil procured from the seeds, which is of the most extensive use, and is said

to grow more mellow and agreeable with age.

Our drawing was made from a weak plant which flowered at Mr. Vere's, of Kensington-Gore, in August 1813. The sketch of the seed-vessels was added last summer from a much stronger plant which grew quite erect, the produce of the same seeds. It is a tender annual, requiring to be raised and invigorated by renewed hot-beds, to bring it to perfection in this country.

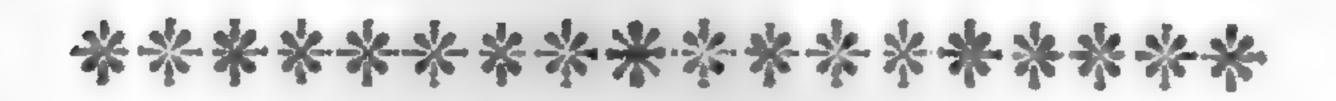
RUMPF mentions two varieties of Sesamum indicum, one with white the other with black feeds; we are informed by Mr. Anderson, that the feeds of our plant are of a yellowish white colour, and were sent from Jamaica under the name of

VANGALOSA.



[1689]

Cosmea lutea. Yellow-flowered Cosmea.



Class and Order.

SYNGENESIA POLYGAMIA FRUSTRANEA.

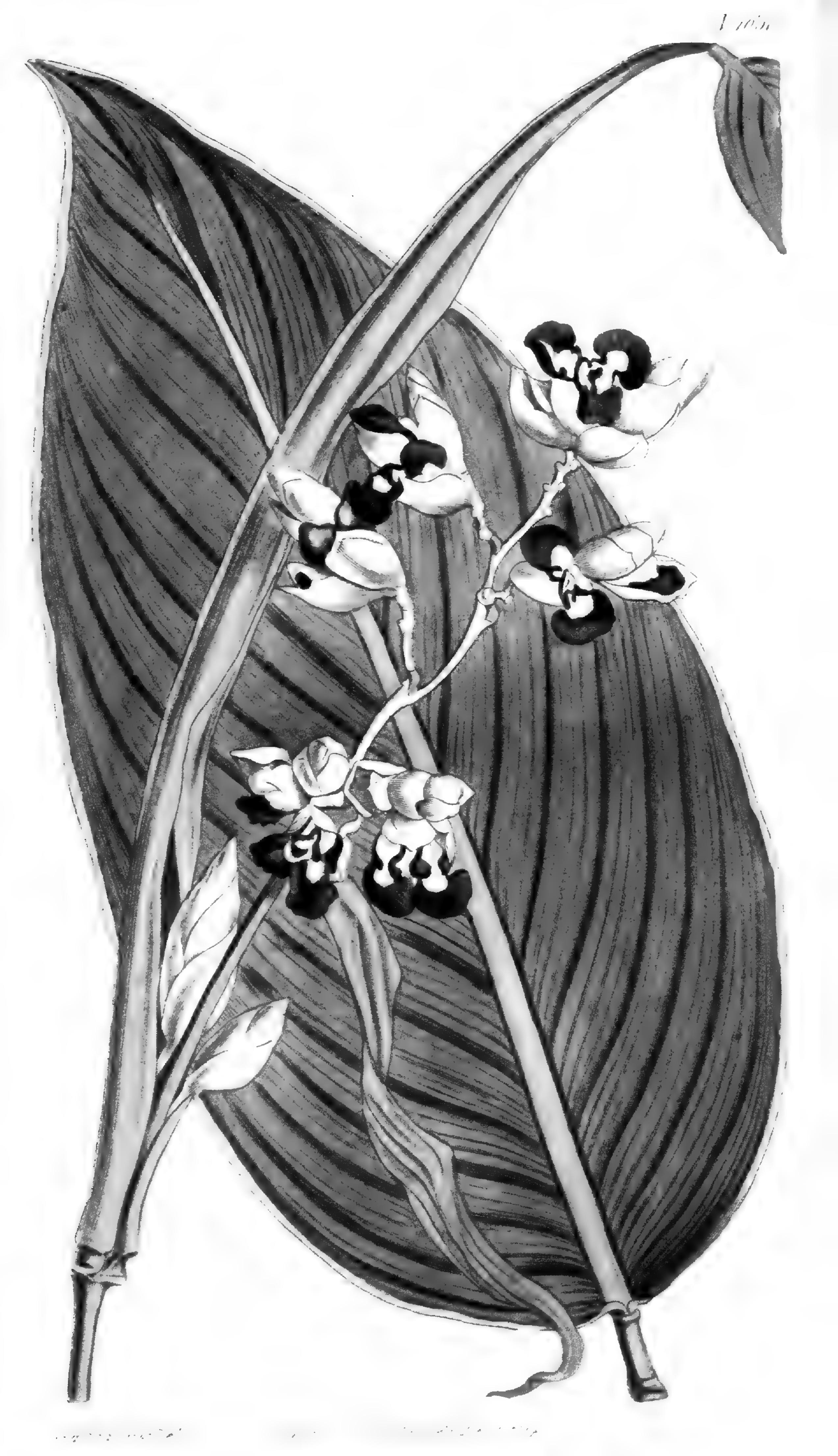
Generic Character.

Recept. paleaceum. Sem. tetragona. Pappus 2- seu 4-aristatus. Cal. duplex, uterque monophyllus octopartitus. Cosmos. Cav. Ic.

Specific Character.

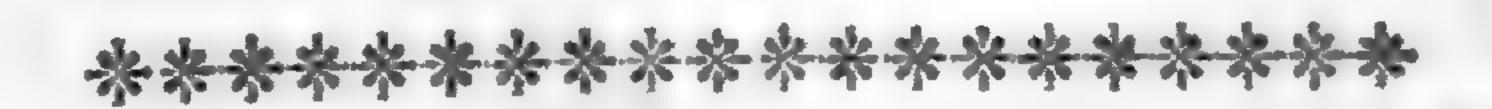
COSMEA lutea; foliis pinnatis bipinnatifidisque: pinnis serratis subdecurrentibus, radio paucisloro neutro.

Our drawing of this undescribed species of Cosmea was taken at the garden of the Right Hon. Lord Holland, in November 1812. His Lordship, we were informed, brought the seeds with him from the Botanic Garden at Madrid, under the name which we have adopted. A native of Mexico. A tender annual, requiring to be forced early in the spring to bring it into slower soon enough to mature its seeds before the winter; for want of which, it is probably already lost to this country.



[1690]

THALIA DEALBATA. MEALY THALIA.



Class and Order.

MONANDRIA MONOGYNIA.

GYNANDRIA MONANDRIA. Purfb.

Generic Character.

Anthera simplex, ovata, filamento proprio depresso inixa. Stylus brevis, ab anthera deslexus. Stigma persoratum ringens. Bacca monosperma. Semen evitellosum.

Specific Character and Synonyms.

THALIA dealbata; panicula albido-pulverulenta, spathis bifloris, foliis ovatis apice revolutis. Pursh Fl. Amer. Sept. 584.

THALIA dealbata; calyce bifloro, culmo arundinaceo pulverulento, foliis apice revolutis. Roscoe in Lin. Soc. Transact. 8. p. 34. Hort. Kew. ed. alt. 1. p. 3.

THALIA? dealbata. Fraser, single plate.

We received a very fine specimen of this beautiful plant in flower, several years ago, from our friend Thomas Furly Forster, Esq. but we could not make it expand any of the buds, though covered with a bell-glass and a bright sun; and consequently, from the fugitive nature of the blossom, we could not at that time get a drawing made of it. This specimen, however, afforded us the opportunity of observing that the anther burst, and discharged its globular pollen, before the expansion of the slower, and whilst it was closely embraced by the membranous stigma. This accounts for the circumstance, mentioned in the generic character, of the style being bent away from the anther; for this organ having already shed its pollen, could

could be of no further use. At every joint of the peduncle is a purplish-coloured concave bracte, which drops off before the

flower is fully opened.

This elegant aquatic is generally confidered as a stove plant, and may probably require that assistance to bring it into blosfom; but, being a native of the swamps of South-Carolina, we presume it would be better to preserve it in the greenhouse through the winter, and remove it into the bark-stove at its

feafon of flowering.

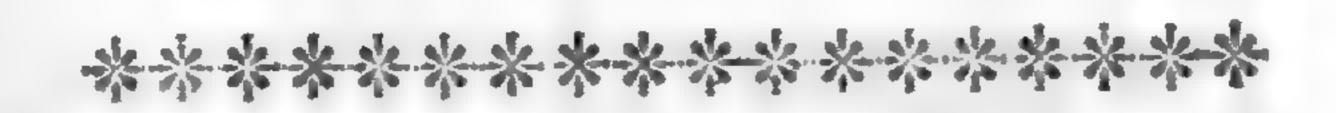
Jussieu includes Thalia in the natural order of Scitamineæ, which he calls Cannæ; but Mr. Robert Brown has separated a small portion of these plants into a distinct order, under the name of Canneæ; retaining that of Scitamineæ for the rest. The Canneæ of Brown, consist of the following genera; Canna, Maranta, Thalia, Phrynium, and perhaps Myrosma; and are distinguished from the true Scitamineæ, by their simple anther, by the desect of a vitellum in the seed, and by their possessing no aroma at all, or at most a very weak one.

Flowers in July and August. Our figure was taken from a plant communicated by Mr. Knight, of the Exotic Nursery.



[1691]

BRASSIA MACULATA. SPOTTED-FLOWERED BRASSIA.



Class and Order.

GYNANDRIA MONANDRIA.

Generic Character.

Labellum explanatum, indivisum. Petala patula, distincta. Columna aptera. Massa pollinis 2, postice bilobæ; medio assixæ processu communi stigmatis. Brown in Hort. Kew.

Specific Name.

BRASSIA maculata. Brown Ms. Hort. Kew. ed. alt. 5. p. 215.

The genus EPIDENDRUM, as originally constituted, through the discovery of a great number of additional species, had become not only too cumbersome, but contained so many plants, with the parts of fructification so differently framed, as to require being separated into distinct genera; a task undertaken, with considerable success, several years ago, by Prof. SWARTZ, and which has been farther elucidated by the labours of ROBERT BROWN, Esq. in the new edition of AITON'S Hortus Kewensis.

Our present plant is placed by Mr. Brown between Cymbidium and Oncidium, and distinguished from both principally by the columna, with which in the former genus the labellum is articulated, and which, in the latter, is winged.

It was named in commemoration of Mr. Brass, a man of confiderable botanical knowledge, who went to Africa several years ago, to collect plants for Sir Joseph Banks and Drs. Fothergill and Pitcairn.

Introduced to the Kew Garden, by the Right Hon. Sir Joseph Banks, Bart. K. B. where it flowered in April last, and was brought to Sir Joseph's, by Mr. Alton, who favoured us with permission to get our drawing taken from it.

[1692]

LOBELIA VARIIFOLIA. VARIOUS-LEAVED LOBELIA.

Class and Order.

PENTANDRIA MONOGYNIA.

(Syngenesia Monogamia. Linn.)

Generic Character.

Cal. 5-fidus. Cor. 1-petala, irregularis. Anth. cohærentes. Caps. infera 2- s. 3-locularis.

Specific Character.

LOBELIA variifolia; caulibus erectiusculis, soliis linearibus integerrimis dentatisque, floribus subsolitariis terminalibus.

The genus Lobelia, as now constituted, contains so many species, several of which differ so materially in the parts of sructification, that they might with great advantage be separated. Our present plant is nearly related to Lobelia lutea; see No. 1319, where the remarkable difference that exists between that plant and the rest of the genus is pointed out. We believe that Mr. Salisbury has erected these two plants into a distinct genus, but we do not know that he has published any thing on the subject. We therefore leave them for the present under Lobelia. It is much to be wished that some Botanist, who has sufficient opportunity, would go through the whole order.

Lobella variifolia differs from lutea, not only in foliage and habit, but in having a tripartite stigma, which in the latter is bipartite; but whether this distinction is constant must remain uncertain till an opportunity shall offer of examining a greater number of individuals.

Native of the Cape of Good Hope. Our drawing was taken at the superb collection of the Comtesse De Vandes, at Bayes-Water, in July 1812.





[1693]

Myoporum. Small-leaved Myoporum.



Class and Order.

DIDYNAMIA ANGIOSPERMIA.

Generic Character.

Cal. 5-partitus. Cor. tubo brevi; limbo 5-fido, subæquali. Stigma obtusum. Drupa baccata, 2—4-locularis. Sem. 1—2, pendula.

Specific Character and Synonyms.

MYOPORUM parvifolium; foliis alternis clavato-linearibus ramulisque glanduloso-tuberculatis, pedunculis subbipartitus, folium subæquantibus.

MYOPORUM parvifolium; foliis alternis linearibus obtusiusculis apice nunc dentatis basi attenuatis ramulisque glandulosis, pedunculis passim bipartitis dimidio solio longioribus, caule disfuso. Brown Prod. Fl. Nov. Holl. p. 516. Hort. Kew. ed. alt. 4. p. 60.

POGONIA tuberculata, aspera vel scabra Hortulanis.

This is a very pretty little shrub, with sweetish honey-scented slowers; and slowering almost the whole of the year, is a

valuable ornament to our greenhouses.

Being propagated by cuttings without difficulty, it is become pretty common, though no figure of it has, we believe, been hitherto published. We have received specimens of this plant from several quarters, under the names of Pogonia tuberculata, aspera, and scabra. Our drawing was taken from a plant communicated by Messrs. Loddices and Sons. Introduced in 1803, by Mr. Peter Good.

[1694]

PROTEA ACUMINATA. SHARP-POINTED PROTEA.



Class and Order.

TETRANDRIA MONOGYNIA.

Generic Character.

Petala 4, quorum 3 superne cohærentia. Antheræ apicibus concavis corollæ immersæ. Nux supera, undique barbata, stylo persistente coronata.

Specific Character.

PROTEA acuminata; foliis lineari-lanceolatis acutis planis supra venulosis, bracteis obtusis apice pubescente-concavo, ramis slexuosis coloratis.

This species of PROTEA, which we do not find described any where, has considerable affinity with canaliculata; but differs in having broader flat leaves, not hollowed on the upper surface, where they are slightly veined; bractes more obtuse, hollowed at the extremity, and bordered with a black pubescence. Stem upright: branches weak, twiggy, of a bright red colour on the side exposed to the light, and more thinly clothed with leaves than in canaliculata. Flowers always terminal.

Our drawing was taken at Messrs. Lee and Kennedy's, in March 1812, where it is known by the name we have adopted.





[1695]

COMMELINA TUBEROSA. TUBEROUS COMMELINA.

Generic Character.-Vide No. 1431.

Specific Character and Synonyms.

COMMELINA tuberosa; (flores involucrati;) radice tuberosofasciculata; caule ramoso, sutura villosa striato; soliis
oblongo v. ovato-lanceolatis, glabris, margine subciliatoscabris, vagina periolari tomentoso-ciliatis, junioribus supremis involucroque subtus pubescentibus; racemis alternis, inclusis, paucisloris; pedunculis pubescentibus;
rachide pedicellisque glabris; corollæ lacinis æqualibus,
ovato-rotundis. G.

COMMELINA tuberofa. Linn. Sp. Pl. ed. 2. 1. 61. Willich. Illustr. n. 18. Mill. Diet. ed. 8. n. 4. Hort. Kew. 1. 76. ed. 2. 1. 124. Gærtn. Sem. et Fr. 1. 49. t. 15. Schmidel. Ic. 192. tab. 49. Bot. Rep. tab. 399. Lil. à Redouté. tab. 108. Willd. Sp. Pl. 1. 251. Enum. 69. Vabl Enum. 2. 171.

COMMELINA cœlestis. Willd. Enum. 69.

COMMELINA radice anacampserotis. Dillen. Hort. Elth. 94. 1ab. 70. sig. 90.

Willdenow, in the last of his works above quoted, records the present plant under the name of cælestis, and has besides a species in the same as tuberosa. But, as our plant is undoubtedly his cælestis, and, as far as we can make out, the tuberosa of others; and since he has given no mark sufficient to distinguish them by, we suspect that this was the only one seen by him; and that being unable to satisfy himself of its identity with tuberosa, he has (as we so often see is done, to the injury of this science) recorded two species instead of one. We doubt whether the C. fasciculata of the Flora Peruviana is really distinct from this: it has the same root. Our drawing was made from a seedling specimen that slowered in its first year at Mr. Vere's. The feed had been received from a botanic garden in the North of Germany. A native of Mexico; requires to be kept in the stove. Perennial. Cultivated in 1732 by Dr. SHERRARD at Eltham. G.

Eugenia Jambos. Narrow-leaved

EUGENIA.

Class and Order.

ICOSANDRIA MONOGYNIA.

Generic Character.

Cal. 4-partitus, superus. Petala 4. Bacca 1-locularis, 1-sperma.

Specific Character and Synonyms.

EUGENIA Jambos; foliis integerrimis lanceolatis, pedunculis subquadrissoris terminalibus. Willd. Sp. Pl. 2. p. 959. Hort.

Kew. ed. alt. 3. p. 186.

EUGENIA Jambos; foliis integerrimis, pedunculis ramosis terminalibus. Sp. Pl. 672. Willd. 2. p. 959. Hort. Kew. ed. alt. 3. p. 186. Pl. Zeyl. 188. Lour. Fl. Cochin. 807. Mart. Mill. Dist. n. 2.

JAMBOSA sylvestris alba. Rumpf Amb. 1. p. 127. t. 39. MALACCA-SCHAMBU. Hort. Malab. 1. p. 27. t. 17.

PRUNUS malabarica fructu umbilicato pyriformi Jambos dicta minor. Raj. Hist. 1478. n. 1.

In reading over the descriptions of the authors above quoted, there appears to be considerable contradiction existing in their accounts, which may be owing perhaps occasionally to the confounding this species with E. malaccensis; or there may be different varieties or species. Rumps describes our plant as one of the wild forts of Jambosa, distinguishing it from the domestic, or Eugenia malaccensis of Linneus by its smaller size, crooked growth of the stem, and austere, round-compressed fruit, which he says is seldom eaten in Amboyna, being less juicy, more insipid, and leaving a bitterish taste on the palate. From the crooked growth, the wood is chiefly used for the ribs of ships.

In the Hortus Malabaricus, the flowers are described as at first white and scentless, afterwards turning yellow and acquiring an acid or vinous smell; and the fruit is said to be sweet and grateful, with a very pleasant rose-like scent. By Loureiro the stamens are described to be red, the fruit sweetish acid,

without imell.

Communicated by —— BARRETT, Esq. of Ewel, at the latter-end of June. Flowers from February to July. Native of the East-Indies. Requires to be kept constantly in the bark stove.





[1697]

PTERONIA PAUCIFLORA. FEW-FLOWERED PTERONIA.



Class and Order.

SYNCENESIA POLYGAMIA ÆQUALIS.

Generic Character.

Recept. paleaceum: paleis multipartitis. Pappus subplumosus. Cal. imbricatus, squamis carinatis.

PTERONIA pauciflora; suffrutex tomentoso-pilosus, ramis unifloris, foliis alternis lanceolatis, squamis calycinis glabris obtusis, capitulis cylindricis.

This little shrub, native of the Cape of Good-Hope, was communicated by the late Mr. Napier, from the Vauxhall Nursery, now Chandler and Buckingham's. Having neglected at the time to examine it particularly, and not having met with it since, it is not without some hesitation that we give it as a species of Pteronia.

Oxalis Rosacea. Rose-coloured Wood-Sorrel.



Class and Order.

DECANDRIA PENTAGYNIA.

Generic Character.

Cal. 5-phyllus. Petala unguibus connexa. Stam. inæqualia: 5 breviora exteriora, basi connata. Caps. angulis dehiscens, 5-gona.

Specific Character and Synonyms.

OXALIS rosacea; caule simplici folioso decumbente, foliis ternatis subsessibles, pedunculis unissoris longissimis, petalis subtus discoloribus.

OXALIS rosacea; caule folioso simplici decumbente, pedunculo unissoro foliis multoties longiore, foliis ternatis subfessilibus oblongo-cuneisormibus, corollis campanulatis acutiusculis, stylis staminibus interioribus brevioribus. Willd. Sp. Pl. 2. p. 797. Hort. Kew. ed. alt. 3. p. 128.

OXALIS rosacea; corollis campanulatis, stylis intermediis, filamentis gibbose denticulatis. Jacq. Oxalis, n. 30. p. 51.

1. 17.

This beautiful species of Oxalis was communicated from the Bishop of London's garden in Fulham, in October 1812.

Native of the Cape of Good-Hope. Introduced by Mr. Masson. Flowers from September to November.

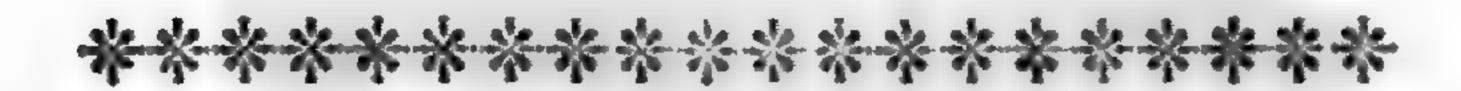




Pub by & Custer Walworth Jan. 1. 1814

[1699]

CROTALARIA PULCHELLA. LARGE-FLOWERED CROTALARIA.



Class and Order.

DIADELPHIA DECANDRIA.

Generic Character.

Legumen turgidum inflatum, pedicellatum. Filam. connata, cum fissura dorsali.

Specific Character and Synonym.

CROTALARIA pulchella; frutescens, ramulis teretibus sericeis, foliis ternatis: foliolis lineari lanceolatis acutis petiolis longioribus subtus subpilosis. Bot. Repos. 417. Hort. Kew. ed. alt. 4. p. 274.

The CROTALARIA pulchella is a handsome greenhouse shrub, with long, erect, slender, rounded branches, bearing large bunches of yellow slowers at their extremities. The whole plant is covered with a silky, close-adpressed pubescence.

Our drawing was made several years ago, at Mr. Colville's

Nursery, in the King's-Road, in the month of May.

Native of the Cape of Good-Hope.



1700

YUCCA ALOIFOLIA. TALL-STEMMED ADAM'S NEEDLE.

Generic Character.-Vide No. 900.

Specific Character and Synonyms.

YUCCA aloifolia; caudice arborescente, frugisero soliis aliquoties altiore; soliis numerosissimis, lapsu inferiorum excelse terminalibus, lanceolato-ligulatis, strictissimis, subtiliter denticulatis, juxta supra basin angustatis, interioribus erectius conniventibus; panicula racemosa, numerosa, subconferta, pyramidata, divaricata, ramulis laxis; corolla nutante. G.

YUCCA aloifolia. Linn. Spec. Pl. ed. 2. 1. 457. Mill. Dist. ed. 8. n. 2. Hort. Kew. 1. 465. ed. 2. 2. 291. Decand. Pl. Gr. tab. 20. Desfont. Traité des Arbres. 1. 18. Lil. à Redouté. tab. 401, 402. Mich. Bor. Amer. 1. 196. Pursh Amer. Sept.

1. 228.

YUCCA gloriosa. Bot. Reposit. 473; (nec aliorum.)

Y. arborescens foliis rigidioribus, rectis, serratis. Dillen. Hort. Elth. 435. tab. 326. fig. 416.

ALOE yuccæ foliis caulescens. Pluk. Alm. 19. t. 256. f. 4.

A. americana, yuccæ foliis arborescens. Comm. Prælud. 64.

tab. 14.

The most losty of its genus yet known to us; the stem rising sometimes to near eighteen seet high even in this country. The leaves are narrower and stiffer than in gloriosa (see above, No. 1260), and their edges sinely serrate and not entire as in that; the paniele much closer slowered, from two to three seet high; slowers suffused with purple on the outside. It does not bloom so freely as the two species already given in this work; and when it does the head decays, others sprouting out below. Usually kept in the greenhouse or conservatory, where we have seen vigorous plants, ten feet high and as thick as a man's arm, in garden-pots not more than a soot deep. It is said to thrive better in the open ground,

ground, and to flower there much stronger, when the seasons are favourable. We had not the opportunity of seeing the present plant, which slowered last October in the garden of Mrs. Walker, at Stockwell. Native of both North and South America. Cultivated in 1696, in the King's Garden, at Hampton-Court. G.

ERRATUM.

No. 744, l. 13, a pede pag. pro "præter habitum non bulbosum aliundeque diversum," lege "habitu præterea non bulboso aliundeque diverso."



1701

SESUVIUM PORTULACASTRUM (3) REVOLUTUM. PURSLANE-LEAVED SESUVIUM.



Class and Order.

ICOSANDRIA TRIGYNIA.

Generic Character.

Cal. 5-partitus, coloratus. Petala o. Caps. ovata, 3—5-locularis, circumscissa, polysperma.

Specific Character and Synonyms.

SESUVIUM Portulacastrum; floribus subsessilibus.

SESUVIUM Portulacastrum. Hort. Kew. ed. alt. 3. p. 203. Willd.

Sp. Pl. 2. p. 1009. Decand. Pl. Grasses 9. Lamarck Illustr. t. 434. f. 2. Swartz Obs. p. 204. Jacq. Amer. 155. t. 95.

SESUVIUM sessile et revolutum. Persoon Syn. 2. p. 39. n. 2. et 3.

AIZOON canariense. Bot. Repos. 201.

PORTULACA aizoides maritima procumbens, flore purpureo.

Sloane Hist. 1. p. 204.

AIZOON repens, foliis oblongis turgidis, floribus sessilibus singularibus ad alas. Brown Jam. p. 241.

CRITHMUS indicus. Rumpf Amb. 6. p. 165. 1. 72. f. 1.?

(3.) revolutum; foliis ovato-oblongis margine revolutis. Persoon Syn.

2. p. 39. SESUVIUM revolutifolium. Ortega Decad. p. 19.

Persoon makes three species of Sesuvium, viz. pedunculatum, sessible, and revolutum; and quotes the figures of Decandolle's Plantes Grasses, at that time unpublished, for all of them. But as this Botanist has as yet published only one species, and that under the name of Portulacastrum, we cannot absolutely determine on the propriety of Persoon's division. Our plant, however, differs so little from Decandolle's figure, that we can consider

it only as a variety. At the same time we are inclined to think that those plants which have slowers on long peduncles, reslected as the fruit ripens, may form a species distinct from those with nearly sessile slowers, as in the two sigures in Lamarck's Illustrations. Judging, however, from the sigures given by different authors, none of their plants seem to have had entirely sessile slowers; and in some, the length of this part is such as to make it doubtful to which species they ought to be referred: perhaps, therefore, they may be all merely varieties of the same.

The species is said to occur in maritime places both in the

East and West-Indies. Our variety is a native of Cuba.

Communicated by Mr. Knight, of the Exotic Nursery, King's-Road, flowering in July.



[1702]

HIBISCUS MANIHOT. PALMATED-LEAVED HIBISCUS.



Class and Order.

MONADELPHIA POLYANDRIA.

Generic Character.

Cal. duplex: exterior polyphyllus. Stigmata 5. Caps. 5-locularis polysperma.

Specific Character and Synonyms.

HIBISCUS Manihot; foliis palmato-digitatis septempartitis, caule petiolisque inermibus. Sp. Pl. 980. Willd. 3. p. 825. Hort. Kew. ed. alt. 4. p. 229. Mart. Mill. Diel. n. 29. Sabbat. Hort. 1. t. 56. Kniph. Cent. 9. n. 47. Cav. Diss. 3. p. 172. t. 63. f. 2. Thunb. Fap. 272.

KETMIA folio manihot serrato, flore amplo sulphureo. Dill.

Elth. 189. t. 156. f. 189.

ALCEA sinica manihot stellato folio, capsula longa pilosa pyramidata quinquesariam divisa. Pluk. Amalth. 7. t. 355. f. 2.

This beautiful flower is a native of China and Japan, and has at times been cultivated in this country fince the year 1712, at which period it was fent to the Royal Society as one of the fifty specimens annually delivered from the Apothecaries Garden at Chelsea.

The genus Hibiscus contains many plants so differently organized, that they might be advantageously divided into several genera. Our friend Mr. Brown has separated this species with some related ones, having an internal deciduous calyx bursting on one side, and a long pyramidal capsule, and formed them into a distinct genus, under the name of Bamia; but has not, as yet, published on the subject.

Communicated by Mr. Swret, of the Stockwell Nursery. Flowers in August and September. Is treated as a stove shrub; but is probably more hardy than is supposed, as has been found

to be the case with most Japan plants.

[1703]

HELONIAS BRACTEATA. LEAFY-FLOWERED HELONIAS.

Class and Order.

HEXANDRIA TRIGYNIA.

Generic Character.-Vide No. 985.

Specific Character.

HELONIAS bracleata; (hermaphrodita) rhizomate horizontali, foliis lanceolatis erectis, bracleis flore longioribus, petalorum glandulis distinctis.

Helonias bracteata has a near affinity to glaberrima (No. 1680). From which it differs in having yellowish green, not glaucous leaves; slowers larger, sessile, in a dense spike, with large ovateacuminate bractes, longer than the corolla, the glands of the petals, which in the former species are constuent, in this are quite distinct; the root in the former is bulbous, in this sleshy, running horizontally along the surface of the ground, as in Iris.

Native of North-America. Introduced by Meffrs. Fraser, of Sloane-Square, who communicated the plant from which our drawing was made. Flowers in September and October. Seems to be a hardy perennial, and may no doubt be propagated by cuttings of its flother roots.

cuttings of its fleshy roots.





LACHENALIA QUADRICOLOR (y.) LUTEA. SPOTTED-LEAVED YELLOW LACHENALIA.

Class and Order.

HEXANDRIA MONOGYNIA.

Generic Character.—Vide No. 993.

Specific Character and Synonyms.

LACHENALIA quadricolor; foliis binis lineari-lanceolatis canaliculatis sursum explanatis, floribus distantibus pedunculatis pendulis: petalis exterioribus fere dimidio brevioribus. Synonyma petenda, No. 588 et 1097.

(α.) foliis omni macula expertibus. Supra No. 588.

(3.) soliis maculatis, floribus quadricoloratis. Supra No. 1097.

(y.) foliis maculatis, floribus concoloribus luteis.

LACHENALIA luteola. Jacq. Ic. rar. 2. t. 395. quoad figuram fine foliis.

Our Lachenalia quadricolor, though shewn by Mr. Ker, at No. 1097 of the Magazine, to be in reality the original tricolor of the sirst edition of Aiton's Hortus Kewensis, is still referred to in the last edition of that work as a variety of pendula.

We remarked on the publication of variety (a) of this species, that it came nearer to tricolor than to pendula, and to the former, perhaps, all our three varieties might be properly referred. Having, however, hitherto retained Jacquin's name of quadricolor, we think it best to continue it, especially as it is doubtful whether our Lachenalia tricolor (No. 82), and its variety (No. 1020) be not really a distinct species from our varieties of quadricolor.

JACQUIN appears to have figured our plant as a mere variety of his luteola; but as he has not added the leaves, we cannot fay how far they may have agreed in this respect. He observes, that out of a hundred specimens, only two had spotted leaves; if the figure in question belonged to one of these, there would be no

doubt.

Our drawing was made at Mr. GRIFFIN's, South-Lambeth, in August last.

Native of the Cape of Good-Hope. Propagated by its bulbs. Requires the same treatment as for other Cape bulbs.

[1705]

HÆMANTHUS TIGRINUS. TIGER-SPOTTED BLOOD-FLOWER.

Class and Order.

HEXANDRIA MONOGYNIA.

Generic Character.-Vide No. 1075.

Specific Character and Synonyms.

HÆMANTHUS tigrinus; foliis linguiformibus planis glabris margine ciliatis depressis, umbella coarctata, limbo staminibusque erectis. Willd. Sp. Pl. 2. p. 25. Hort. Kew. ed. alt. 2. p. 207. Person Syn. 1. p. 348. n. 5.

HÆMAN'THUS tigrinus; soliis oblongis ciliatis subtus maculatis, scapo maculato umbella coarctata. Jacq. Hort.

Schoenb. 1. p. 29. t. 56.

The leaves of the HEMANTHUS tigrinus appear after the flowering is past, are two, broad-tongue-shaped, slessly, smooth, ciliated at the margin, lying nearly slat on the ground; they are marked, especially towards the base, on the under side, with irregular dark iron-coloured spots, from whence the specific name. The tube of the corolla is short, somewhat dilated at the top and white: the limb erect, pale red.

The specimen figured by JACQUIN was not nearly so large as the one from which our drawing was taken, which slowered in August last, in the most extensive collection of Cape bulbs of

Mr. GRIFFIN, in South-Lambeth.



1706

DONIA SQUARROSA. SNAKE-HEADED DONIA.



Class and Order.

SYNGENESIA POLYGAMIA SUPERFLUA.

Generic Character.

Recept. nudum. Pappus setaceus caducus. Calyx imbricatus, hemisphæricus. Brown.

Specific Character and Synonyms.

DONIA squarrosa; herbacea; foliis oblongis amplexicaulibus serratis, calycinis squamis apice filisormibus revolutosquarrosis. Pursb Fl. Am. Sept. 559.

This genus was named by Mr. Brown, in honour of the late Mr. George Don, a celebrated Scottish Botanist, whose discoveries have made so many additions to the British Flora. It was taken up from the Aster glutinosus of Prof. CAVANILLES, a native of Mexico, with a shrubby stem, and some other unpublished species.

Donia squarrosa is a herbaceous perennial, native of open meadows on the banks of the Missouri; and, as we learn from Mr. Lambert's Herbarium, was first discovered in the camp, near the old Maha village, by Mr. Lewis, on the 17th of August 1804. We believe it was first introduced to this country

by Mr. NUTTAL.

Mr. Pursh says, that the whole plant is viscous, and has a strong resinous or balsamic scent; to us these qualities seemed to be confined chiefly, if not altogether, to the calyx and

corolla, and more especially to the latter.

Our drawing was taken at Messrs. Fraser's American Nursery, Sloane-Square. We were favoured with other specimens by Mr. Anderson, from the garden of James Vere, Esq. and also from Boyton, the seat of A. B. LAMBERT, Esq. Flowers from August to November. Propagated by seeds or parting its roots.



PETALOSTEMUM VIOLACEUM. PURPLE-FLOWERED PETALOSTEMON.

Class and Order.

DIADELPHIA PENTANDRIA.

Generic Character.

Cor. nulla, ejus loco filamenta 5, sterilia, petalisormia, sertilibus alternantia. Legumen calyce tectum, 1-spermum.

Specific Character and Synonyms.

PETALOSTEMUM violaceum; capitulis ovato-oblongis, calycibus pilosis, bracteis deciduis, foliis subbijugis linearibus.

PETALOSTEMUM violaceum; spica cylindrica pedunculata, bracteis calycem subæquantibus, bracteolis spathulatis deciduis, calycibus sericeis, foliis bijugis linearibus. Pursh Fl. Amer. Sept. p. 461.

PETALOSTEMUM violaceum; pubens; foliolis linearibus: bracteis brevioribus; bracteolis spathulatis deciduis: petalis rosaceo-violaceis. Michaux Fl. Bor. Amer. 2. p. 50. 1. 37. f. 2.

DALEA violacea. Willd. Sp. Pl. 3. p. 1337.

The purple Petalostemum, as an ornamental flower, is by no means despicable, but is more remarkable for its singular structure: being a diadelphous plant without any proper corolla, having nine united and one detached filament, as is most usual in the class. But the alternate filaments are barren, coloured, and expanded at top into a petal-like appendix. The solitary filament is longer than the rest, channelled on the upper side, coloured, and expanded into a boat-shaped extremity; which as it occupies the place of, so it seems a sort of attempt towards, the formation of a vexillum. The sertile filaments are longer than the others and farther detached than is usual: the anthers are nearly globular, and abound with a bright orange-coloured pollen.

pollen. The unripe germen certainly contains two ovula, but one feed only probably comes to perfection. The calyx is in-

flated, white, five-toothed: teeth hairy.

That this plant has no real corolla was remarked by Thomas Nuttal, Esq. who first introduced it to this country. We received living specimens from this gentleman in the autumn of 1813, which slowered in the open ground, near Liverpool, but from the absence of our draughtsman could not get it drawn at that time. We are informed by Mr. Nuttal, that this plant forms one of the principal decorations of the vast plains of the Illinois, Tennassée, and Louisiana, but its native country appears to be particularly in the upper part of this last state, to the base of the rocky mountains or Northern Cordillera, from whence it has been propagated eastward by the great rivers that meander through these regions.

Collected by Mr. NUTTAL, in the vicinity of St. Louis,

lat. 38° 43".

Our drawing was taken at Messer. Fraser's American Nursery, Sloane-Square, last October. It is a tolerably hardy perennial, but requires to be protected from frost.



1708

BAUHINIA PORRECTA. SMOOTH-LEAVED MOUNTAIN EBONY.



Class and Order.

DECANDRIA MONOGYNIA.

Generic Character.

Cal. 5-sidus deciduns. Petala patula, oblonga unguiculata: superiore magis distante; omnia calyci inserta. Legumen.

Specific Character and Synonyms.

BAUHINIA porrecta; floribus monandris, pedunculis laxe racemosis, petalis lanceolatis: unguibus filisormibus, foliis cordatis: lobis trinerviis.

BAUHINIA porrecta; foliis cordatis: lobis porrectis acutis trinerviis, petalis lanceolatis. Hort. Kew. ed. 1. 2. p. 48. ed. alt. 3. p. 23. Willd. Sp. Pl. 2. p. 510. Swartz Prod. 66. cui flores subdecandri.

BAUHINIA porrecta; floribus diadelphis subdecandris, soliis cordatis, lobis semiovatis acutis subquadrinerviis, petalis lanceolatis. Jacq. Hort. Schoenb. 1. p. 52. t. 100.

BAUHINIA foliis bilobis spicis laxis terminalibus. Brown Fam. 286.

BAUHINIA non aculeuta, folio ampliori et bicorni. Plum. Gen. 23. Ic. 44. f. 2.?

SENNÆ spuriæ aut Aspalatho affinis arbor siliquosa, soliis binis. Sloane Jam, 150. Hist. 1. p. 51.

The genus Bauhinia was named by Plumier, in honour of John and Caspar Bauhin, the most celebrated Botanists of their day; and Linneus has ingeniously connected the plant with the name, by comparing the two lobed leaves, or as it were two leaves issuing from the same base, with the above-named

above-named pair of noble brothers. Such allusions serve at

least to rivet the name in the memory.

This species and divaricata are both monandrous, or have in general only one sertile stamen, which is distinct, and much stouter and longer than the other nine connected filaments without anthers, or with only imperfect ones. It happens, however, that now and then one or another filament grows longer than the rest, and has a small polliniferous anther.

Native of the West-Indies. The leaves appear to vary confiderably. One specimen in the Banksian Herbarium, from the Island of St. Kitts, has leaves with obtuse lobes examly refembling those of our plant, others are sharper and more

lengthened at the point.

Communicated by our friend JOHN WALKER, Esq. of

Arno's-Grove, in October last.

Varies, according to Sir Hans Sloane, with red and with variegated flowers. The wood is very hard and veined with black, hence the name of Ebony.



Put bye of Cartie Walmorth Feb. 1 1815.

[1709]

LIATRIS SCARIOSA. SCARIOUS-CUPPED LIATRIS.



Class and Order.

SYNGENESIA POLYGAMIA ÆQUALIS.

Generie Character.

Recept. nudum. Cal. oblongus, imbricatus. Pappus plumosus.

Specific Character and Synonyms.

LIATRIS scariosa: foliis lanceolatis integerrimis glabris, calycibus globosis inferne squarrosis distinctis: squamis

rotundatis membranaceo-marginatis.

LIATRIS scariosa; caule simplici subpubescente, foliis lanceolatis utrinque attenuatis glabris margine scabris, calycibus racemosis alternis distantibus inferne squarrosis; squamis spathulatis margine membranaceo-coloratis. Pursh Fl. Amer. Sept. 509.

LIATRIS scariosa. Willd. Sp. Pl. 3. p. 1635. Hort. Kew. ed.

alt. 4. p. 503.

LIATRIS squarrulosa; Michaux Fl. Bor. Amer. 2. p. 92.

SERRATULA scariosa; foliis lanceolatis integerrimis calycibus squarrosis pedunculatis obtusis. Linn. Sp. Pl. 1147.

EUPATORIO affinis americana bulbosa, floribus scariosis calyculis contectis. Pluk. Alm. 142. t. 177. f. 4.

Descr. Stem four-feet high, upright, simple, pubescent. Leaves narrow-lanceolate, quite entire, dotted with pellucid glands, smooth, except at the edge, which is roughened by a row of stiff hairs hardly visible to the naked eye. Bratles like the leaves but narrowed from the base to the point. Flowers distinct, but near together, in a long raceme on short peduncles, sometimes without and sometimes with one or two squamous bratles. Calyx, before the slower appears globular, afterwards oval: the lower scales restexed, upper ones erect, rounded at

the point with a membranaceous border. Receptacle naked; but in the circumference appears as if chaffy from abortive florets. Tube of corolla inflated in the middle: limb 5-cleft, erect, acute. Anthers dark purple. Germen hairy, crowned with a toothed pappus: style oblique: stigmas clubshaped, far exceeding the

corolla in length.

The specimen from which the above description was taken was sent us from his garden at Boyton, by our friend AYLMER BOURKE LAMBERT, Esq. The spike of slowers was a foot and a half long, the upper ones blossoming sirst and gradually descending, but nearly the whole were expanded before any began to fade. Upon the whole it is among the handsomest of the syngenesious plants. It is particularly adapted to the slower pot, as it will live and continue to blow in water for weeks together.

Our drawing was taken at Mr. KNICHT's Exotic Nursery, in

the King's-Road, Little Chelsea, in October 1813.

Native of the mountain pastures in Virginia and Carolina. A hardy perennial. Propagated by parting its roots or by seed.



[1710]

SARRACENIA VARIOLARIS. HOOK-LEAVED SIDE-SADDLE-FLOWER.



Class and Order.

POLYANDRIA MONOGYNIA.

Generic Character.

Cal. duplex, 3-phyllus et 5-phyllus. Caps. 5-locularis. Stylus stigmate clypeatus.

Specific Character and Synonyms.

SARRACENIA variolaris; foliis tubulatis longitudine pedunculi: valva subrotunda inslexa: tubi dorso superne maculato.

SARRACENIA variolaris; foliis elongatis, tubo superne dorso maculato, in appendicem fornicatim incurvatum brevem desinente, ala ventrali lineari-lanceolata. Michaux Flor. Bor. Amer. 1. p. 310. Pursh Fl. Amer. Sept. 367. Persoon Synops. 2. p. 62.

SARRACENIA adunca; foliis tubulatis longitudine pedunculi: valva subrotunda inslexa. Smith Exot. Bot. 1. p. 103. t. 53.

Hort. Kew. ed. alt. p. 291.

SARRACENIA minor. Walter Fl. Carol. 153. Willd. Sp. Pl. 1150. 2. p. 6. Persoon Syn. 2. p. 62.

The SARRACENIA variolaris is at once distinguished from flava, by its smaller size; spreading, not dependent petals; and the diaphanous spotting at the upper part of the back of the tube of the leaf.

Our friend, Sir James E. Smith, seemingly not aware that this species had been previously described by Michaux, in his Exotic Botany, gave it the name of adunca; whence it has been

inserted in the Hortus Kewensis. Willbenow continues Walter's name of minor; and Persoon has given both minor

and variolaris as two species.

Native of Carolina. Flowers at different seasons. Our drawing was taken last March, at Messrs. Lee and Kennedy's, by whom it was first introduced in 1803. Mr. Pursh says, the Sarracenias bear cultivation, in pots filled half way with Bog-Moss, extremely well. This species seems to slower best in an airy part of the stove.



[1711]

Matthiola odoratissima. Persian Stock.



Class and Order.

Tetradynamia Siliquosa.

Generic Character.

Siliqua (teres v. compressa) coronata stigmate conniventi bilobo, lobis vel dorso incrassatis tuncque cotyledonibus incumbentibus; vel basi cuspide stipatis. Calyx clausus. Filamenta longiora dilatata. Brown.

Specific Character and Synonyms.

MATTHIOLA odoratissima; (stigmate subsimplici) foliis tomentosis lyrato-sinuatis, siliquis compressis, tomentosis lævibus. Hort. Kew. ed. alt. 4. p. 120.

CHEIRANTHUS odoratissimus. Willd. Sp. Pl. 3. p. 524. Ejust. Enum. 682. Pallas Ind. Taur. in Nov. Act. Petrop. 10. p.

CHEIRANTHUS odoratissimus; foliis runcinatis tomentosis, siliquis linearibus compressis, stigmate bilobo terminatis, caule suffruticoso. Marschall ab Bieb. Fl. Taur-Caucas.

p. 122.

Mr. Brown, in the new edition of the Hortus Kewensis, has divided the old genus Cheiranthus into several genera, devoting a part thereof to the commemoration of the celebrated commentator on Dioscorides, Peter And. Matthiolus; the former genus, assigned to him by Plumier, having been proved to be the same with Guettarda. This genus contains, besides the present plant, Cheiranthus incana; fene-stralis; simuata; tricuspidata; parvissora; &c.

The leaves of the Persian Stock, are extremely variable in their figure, being sometimes quite entire, sometimes only slightly

flightly toothed, but more frequently finuately pinnatifid, and always much the broadest towards the point. The whole plant is tomentose.

This species has great affinity with MATTHIOLA (CHEI-RANTHUS) tristis, 729 of this work; and, like it, does better treated as a greenhouse plant, than exposed to our winters in the open ground. The slowers are much larger and of a brighter colour than those of tristis; and have the same fragrant smell after sun-set.

Our drawing was taken from a plant communicated by Mr. Salisbury, from the Botanic Garden, in Sloane-Street, in May last. We were favoured with fine specimens the year before, by Mr. Whitley, from the Fulham Nursery.

Introduced to the Kew Garden, by the Right Hon. Sir

Joseph Banks, Bart. K. B. in 1797.



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A Committee Born

[1712]

Oxalis Variabilis, var. Rubra. Redflowered variable Wood-Sorrel.



Glass and Order.

DECANDRIA PENTAGYNIA.

Generic Character.

Cal. 5-phyllus. Petala 5, unguibus connexa. Stam. inæqualia; 5 breviora exteriora basi connata. Caps. angulis dehiscens, 5-gona.

Specific Character and Synonyms.

OXALIS variabilis; acaulis, scapo unissoro foliis longiore slaccido, soliis ternatis subrotundis: soliolo intermedio cuneisormi, stylis staminibus exterioribus brevioribus. Willd. Sp. Pl. 2. p. 777. Hort. Kew. ed. alt. 3. p. 120.

OXALIS variabilis. Jacq. Oxal. 89. t. 52 et 53.

(α.) albiflora. Vide supra No. 1683.

(3.) rubra. Scapis petiolo longioribus, limbo corollæ rubro.

OXALIS variabilis. 3. flore rubro. Jacq. Oxal. 89. t. 53.

OXALIS purpurea. Thunh. Diff. No. 8. p. 12. v. a. Jacq. Oxal. n. 70. t. 56? Sp. Pl. 621.

OXALIS speciosa. Jacq. Oxal. n. 74. t. 60?

OXALIS sugillata. Jacq. Oxal. n. 75. t. 61?

OXYI affinis planta bulbosa africana, slore purpureo magno. Breyn. Cent. p. 102. t. 46.

OXYS bulbosa africana rotundisolia caulibus et sloribus purpureis amplis. Commel. Hort. 1. p. 41. 1. 21.

It appears to us that JACQUIN, in his elaborate and excellent Monograph on this genus, has multiplied the species beyond what nature warrants. We suspect, that all that we have quoted in the present article are only varieties. And

the synonyms quoted from BREYNE and COMMELIN undoubtedly belong to our species.

Native of the Cape of Good-Hope. Flowers from September to November. Communicated by Messrs. Loddies and Sons.

ERRATUM.

No. 1683, I. 14, pro (y) lege (a).



PROTEA FORMOSA. CROWN-FLOWERED PROTEA.

Class and Order.

TETRANDRIA MONOCYNIA.

Generic Character.

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Petala 4, quorum 3 superne cohærentia. Antheræ apicibus concavis corollæ immersæ. Nux supera undique barbata, stylo persistente coronata. Brown.

Specific Character and Synonyms.

PROTEA formosa; soiiis oblongo-ellipticis marginatis, involucri bracteis spathulatis externe sericeis, corollis tomentosis,

stylo apice curvato, stigmate apice incrassato.

PROTEA formosa; foliis angusto-oblongis venosis obliquis: basi simplici; marginibus ramisque tomentosis, involucri bracteis ciliatis: intimis lingulatis imberbibus, corollis aristisque tomentosis, stylo glabro apice curvato, stigmate apice incrassato. Brown in Linn. Soc. Transact. v. 10. p. 79. Hort. Kew. ed. alt. 1. p. 189.

PROTEA coronata. Bot. Repos. 469.

ERODENDRUM formosum; soliis ellipticis margine crasso, tenellis tomentosis: bracteis involucri simbriatis, inserioribus inter se liberis: corolla extus tomentosa, apice valde attenuata: antheris perangustis: stigmatis apice crasso. Parad. Lond. 76.

Our drawing of this beautiful Protea was taken at Messes. Lee and Kennedy's, Hammersmith, where there are varieties with red, white, and bluish slowers. Flowers in May. Native of the Cape of Good-Hope, growing in the mountains of Hottentots-Holland, from whence it was introduced in 1789, by Mr. Francis Masson.



Fruk Byret Combir Walnerth Bast news

1714.]

POLYGALA MIXTA. HEATH-LEAVED MILK-WORT.



Class and Order.

DIADELPHIA OCTANDRIA.

Generic Character.

Cal. 5-phyllus: foliolis 2 alæformibus coloratis. Legumen obcordatum biloculare.

Specific Character and Synonyms.

POLYGALA mixta; floribus imberbibus solitariis sessilibus, solitariis fessilibus, foliis fasciculatis teretibus mucronulatis.

POLYGALA mixta; floribus imberbibus sessilibus, foliis teretibus mucronatis consertissimis. Linn. Suppl. Pl. 316. Willd. Sp. Pl. 3. p. 891. Hort. Kew. ed. alt. 4. p. 245. Bot. Repos. 455.

POLYGALA mixta; floribus imberbibus lateralibus, foliis fasciculatis trigonis erectis mucronato spinosis. Thunb.

Prod. 121.

Descr. Stem shrubby, with long slexile branches. Leaves subulate, rigid, smooth, terminated with a minute oblique mucro, collected in fascicles of five or six growing from the same point. These sascicles are crowded together, opposite at the lower part of the branch, giving a verticillate appearance; but nearer the extremity they are alternate. Flowers solitary, sessile, or on very short pedicles, in the axils of the leaves. Calyx small, the lateral segments larger than the rest, but seldom, if ever, coloured. Corolla semipapilionaceous, having no vexillum; alæ rigid, erect, subulate, white. Carina deeply channelled, of a saturated purple within: sides solded together, so as

to include and firmly embrace the flyle and stamens, which, when arrived at maturity, upon being moved, escape elastically from their confinement, and strike against the two erect petals or alæ, by which the pollen is dispersed. The apex of the carina is expanded into a two-lobed, plain petal, the lobes of which are emarginate. This appendix is of a bright rose colour, and forms the principal part of the slower; and, dispersed amongst the green soliage in every part of the shrub, gives it a pretty lively appearance. It continues in blossom almost throughout the year.

The specific name was probably given it from its mixed resemblance of Polygala alopecuroides and Heisteria; not, as has been said, from the manner in which the slowers and leaves are

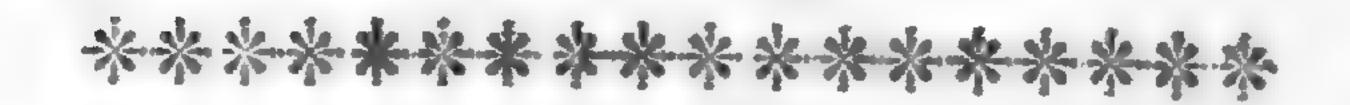
mixed together.

Native of the Cape of Good-Hope. Requires the protection of the greenhouse. Introduced by Mr. F. Masson, in 1789. Communicated by Messer. Loddices and Sons.



[1715]

POLYGALA STIPULACEA. STIPULED MILK-WORT.



Class and Order.

DIADELPHIA OCTANDRIA.

Generic Character.

Cal. 5-phyllus: foliolis duobus alæformibus, coloratis. Legumen obcordatum, biloculare.

Specific Character and Synonyms.

POLYGALA stipulacea; floribus imberbibus axillaribus subsolitariis foliis fasciculatis teretibus mucronulatis subternis, stipula concava obtusissima.

POLYGALA stipulacea; floribus imberbibus lateralibus, caule suffruticoso, foliis ternis linearibus acutis. Linn. Mant. 260. Burm. Prod. 20. Willd. Sp. Pl. 3. p. 892. Hort. Kew. ed. alt. 4. p. 246.

POLYGALA stipulacea; floribus imberbibus lateralibus, foliis solitariis filisormibus mucronatis glabris. Thunb. Prod. 121?

HEISTERIA mitior. Berg. Cap. 187.

SPARTIUM africanum frutescens, ericæfolio. Com. Hort. 2.

P. 193. t. 97.
SUFFRUTEX ericæ forma, flore rubro elegantissimo. Seb.
Mus. 2. p. 63. t. 62. f. 8.

Descr. Stem shrubby: branches short, rigid. Leaves in fascicles, more usually sour together than three, rounded, thickened upwards, blunt-pointed with a minute oblique mucro. Each fascicle is supported by a short, thick, blunt, hollowed stipule. Calyx sive-leaved: leasters lanceolate, involving one another without any lateral petal-like expansion. Flowers axillary, growing singly or two together, of the brightest purple

colour variegated with white. Corolla very like that of mixta, but the alæ are tipped with purple, and the appendices of the carina are much more brilliant. The germen in this species, in mixta, in Heisteria, and probably in the whole section, except P. Chamæbuxus, is terminated with four tooth-like processes. This character, together with the want of the petal-like expansion of the calyx, seem to us to have been sufficient to restore LINNÆUS'S original genus of HEISTERIA.

The synonym always quoted from Thunberg is rendered doubtful, by his describing the leaves as being solitary, filiform, and acute; which terms are in no respect applicable to

our plant.

A hardy greenhouse shrub; native of the Cape of Good-Hope. Flowers almost throughout the year. Introduced in 1791. Communicated by Messes. Loddices and Son.



VERBESINA ALATA. WING-STALKED VERBESINA.



Class and Order.

SYNGENESIA POLYGAMIA SUPERFLUA:

Generic Character.

Recept. paleaceum. Pappus aristatus. Cal. duplici ordine. Flosculi radii circiter 5.

Specific Character and Synonyms.

VERBESINA alata; foliis alternis decurrentibus undulatis obtufis. Willd. Sp. Pl. 3. p. 2221. Enum. 917. Hort. Kew. ed. alt. 5. p. 120. Schkuhr handb. 3. p. 145. t. 256. Mart. Mil. Diet. n. 1. Gært. Fruet. 2. 457. t. 171. Swartz Obf. 313. Kniph. Cent. 4. No. 93.

VERBESINA foliis oblongo-ovatis subdentatis recurrentibus,

floribus remotis terminalibus. Brown Jam. 319.

CANNABIS indica, foliis integris, alato caule. Magn. Hort.

CHRYSANTHEMUM cannabinum americanum alatum, flore aphyllo globoso aurantio, baccharidis solio. Sloane Hist. 1. 261. Commel. Hort. 1. p. 5. 1. 3.

CHRYSANTHEMUM curassavicum alato caule sloribus aurantiis. Herm. Parad. 125. ic. Moris. Hist. 3. p. 25. n. 87.

CHRYSANTHEMUM americanum bidens alatum, flore parvo aurantiaco. Pluk. Alm. 100. t. 84. f. 3.

CHRYSANTHEMUM conyzoide curassavicum, abrotani seminæ slore aurantio. Volk. Norib. 106. ic.

VERBESINA alata differs from the rest of the genus not only in habit, but in having numerous slorets in the radius, although these are so short that at first sight the slower appears to have no radius at all; and also in having the seeds marginated with a white

white membrane, with one arista, hooked at the point and

longer than the other.

When first raised from seeds, the whole plant is hoary; but on the second year, the hoariness is deposited, and the colour of the leaves becomes of a fine dark green, which, contrasted with the brilliant orange-coloured flowers, adds much to the pleasing effect. So that those who treat it as an annual plant, never see it in its most perfect state.

Native of South-America and the West-Indies. Requires to be kept in the stove. Flowers most part of the summer. Cultivated, as we learn from Morison, in the Botanic Garden at Oxford, in 1699. Our drawing was taken at the Right Hon-

Lord Holland's, in August 1812.



[1717]

PROTEA LATIFOLIA. RAYED-FLOWERED PROTEA.

Class and Order.

TETRANDRIA MONOGYNIA.

Generic Character.-Vide No. 1713.

Specific Character and Synonyms.

PROTEA latifolia; foliis late-ovatis semicordatis sessilibus, involucro sericeo tomentoso; bracteis interioribus angustatis apice dilatato barbato, corolla tomentosa: aristis hirsutis longitudine laminarum, stylo pubescenti. Brown in Transl. Linn. Soc. v. 10. p. 75.

PROTEA radiata. Bot. Repos. 646.

ERODENDRUM eximium. Salisb. et Knight Prot. 41?

Our drawing of this beautiful species of PROTEA was taken at Mr. Knight's Exotic Nursery, in the King's-Road, Little Chelsea, in August 1811.

A variety, with greenish white flowers, is cultivated at the

Hammersmith Nursery, Messrs. Lee and Kennedy.

The Proteas are much admired for the variety, fingularity, and frequently the splendour of their flowers; the beauty of

which consists chiefly in the involucrum.

These plants have generally been considered as very difficult of propagation, and not less so of preservation. But our modern cultivators have arrived at a better mode of treatment than was known in the days of Philip Miller. Mr. Joseph Knight, in an Essay on the Cultivation of the Natural Order of Proteze, has given very full directions for their management; and still more ample details may be found in the second edition of the Exotic Gardener, by J. Cushing, soreman to Messes. Lee and Kennedy. We are obliged for the following satisfactory.

factory mode of managing them, to Mr. R. Sweet, late of the Stockwell Nursery, where we have observed these plants to look remarkably well.

Cultivation of the Natural Order of PROTEACEE.

In the first place, it is necessary that the pots should be well drained; for which purpose, place over the hole in the bottom a piece of potsherd, then place another piece against it, so as to leave a hollow; after that put in a handful of potsherd, broken into pieces not larger than peas, and over these pieces still smaller, till the pot is nearly one third-part full. This is applicable to the management of plants of almost every family; for, by these means, the water soaks gradually off, and the

mould is not allowed to get sodden.

In the next place, for the genera Protea, Leucadendron, Leucospermum, Spatalla, Sorocephalus, and Aulax; (vide Brown's Proteaceæ in the Transactions of the Linnean Society, vol. 10.) all the species delight in a composition of rather more than onethird fand, and the rest light loam without any peat. The genera Serruria, Nivenia, Grevillea, Hakea, Petrophila, Isopogon, Banksia, Dryandra, Lomatia, and Telopea, succeed best in three parts of peat, two parts loam, and one part fand. When potted, they do not require any particular care more than other greenhouse plants, except to let them have plenty of air, to avoid letting them flag for want of water, and never to water them over the leaves in cloudy weather.

With regard to their propagation, let the wood be first ripened, then take off the cuttings as nearly as possible between the last and present year's shoot, pare them smooth, and plant them in a pot of fand, not too close together, as they are apt to get the damp amongst them, which readily spreads from one to another. Let the pots be then placed in the propagationhouse, watering them whenever they want it, but not over the leaves. In this way Mr. Sweet has never found any of the supposed difficulty in striking any of this natural order; and even Telopea, the Embothrium speciosissimum of the Botanical

Magazine, he finds to strike as readily as any.



[1718]

Pelargonium radicatum. Fleshy fringed-leaved Crane's-bill.



Class and Order.

MONADELPHIA PENTANDRIA.

Generic Character.

Cal. 5-partitus: lacinia suprema desinente in tubulum capillarem, nectariserum, secus pedunculum decurrentem. Cor. 5-petala, irregularis. Filam. 10, inæqualia, quorum 3—6 caltrata. Arilli 5, monospermi, aristati, ad basin receptaculi rostrati aristis spiralibus introrsum barbatis.

Specific Character and Synonyms.

PELARGONIUM radicatum; (acaulis radice rapacea) umbella simplici, soliis ellipticis integerrimis ciliatis, petalis superioribus basi macula duplici interrupte lineari notatis. Hort. Kew. ed. alt. 4. p. 160. Epit. 209.

PELARGONIUM radicatum; umbellis simplicibus; soliis ovali-oblongis, integerrimis, glabris, margine ciliatis, sloribus pentandris; petalis retusis. Vent. Hort. Malm. 65.

GERANIUM ciliatum. And. Repos. 247.

Monf. Ventenat, who has given an excellent figure of this plant in the Jardin de Malmaison, considers it to be distinct from the Pelargonium ciliatum of L'Heretier, and has been followed by Mr. Dryander in the new edition of the Hortus Kewensis. The ciliatum of Cavanilles and of Jacquin, are also supposed by Ventenat to be at the same time different from our plant and from one another. The latter differs remarkably in the strong hairiness of the leaves over both surfaces.

This species, as is the case with most, if not with all in the turnip-rooted divisions, has only five fertile stamens, and the pedicles

pedicles are erect while the flowers are in bud as well as when expanded: characters which, we have before remarked, seem

sufficient to separate them into a distinct genus.

A tender greenhouse plant. Native of the Cape of Good Hope. Communicated by Mr. Knight, of the Exotic Nursery, and also by Messrs. Colville and Son, of the King's-Road, who first introduced it in 1802. Flowers in June and July.



[1719]

SPRENGELIA INCARNATA. FLESH-COLOURED SPRENGELIA.

Class and Order.

PENTANDRIA MONOGYNIA.

Generic Character.

Cal. 5-partitus, persistens. Cor. 5-partita. Stam. receptaculo inserta. Caps. 5-locularis, 5-valvis: dissepimentis e medio valvularum, placentis columnæ centrali adnatis.

Specific Name and Synonyms.

SPRENGELIA incarnata; antheris connatis barbatis, calvcibus coloratis, foliis longe acuminatis. Brown Prod.

p. 555.

SPRENGELIA incarnata. Smith's Tracts, 272. t. 2. et in Act. Stockh. anno 1794, p. 260. t. 8. Bot. Repos. 2. Willd. Sp. Pl. 1. p. 833. Hort. Kew. ed. alt. 1. p. 320. Epit. 45.

The Sprengelia incarnata is a very ornamental flowering shrub of small stature, first described and sigured by Sir James Ed. Smith, in the Transactions of the Royal Academy of Sciences at Stockholm, and afterwards in English, with a sigure from a living specimen, in a volume of tracts relating to natural history, naming it in honour of Christian Conrad Sprengel, Professor of Botany at Halle.

The flowers, which are very numerous, are produced at the extremities of the short branches, and are of long continuance. The calyx and corolla being much alike, and the laciniæ of the latter, which are nearly white, with a pink tinge, exactly alternating with the segments of the calyx, of a deeper rose colour, give a brilliancy to what might otherwise be considered as rather an insignificant slower.

This

This plant is well described by SMITH; but, according to Brown, the corolla is at first monopetalous, with a very short tube, though it is finally divided to the base. The latter author has described two species, in the first of which only, our present plant, the anthers are coherent; a circumstance which entirely destroys the value of this character.

Native of New South-Wales. Is readily propagated by cuttings; and requires the same treatment as the Cape Heaths. Introduced in 1793, by Messrs. Lee and Kennedy. Com-

municated by Mr. R. Sweet.



[1720]

ERICA LAWSONI. LAWSON'S HEATH.

Class and Order.

OCTANDRIA MONOGYNIA.

Generic Character.

Cal. 4-phyllus. Cor. persistens: limbo 4-sido. Antheræ ante anthesin per soramina 2 lateralia connexæ. Caps. 4—8-locularis, 4—8-valvis.

Specific Character and Synonyms.

Sect. III. Conifloræ grandes. Corollæ inferne dilatatæ semuncia longiores. B. Antheræ muticæ Flores terminales.

FRICA Lawsoni; bracteis calyci proximis, foliolis calycinis subulatis, stigmate exserto, foliis ciliatis sloribusque quaternis.

Descr. Stem a low, upright, pyramidal, branched shrub. Leaves four together, oblong, ciliated at the edge with stiff short hairs, which are branched at the point of the leaf only, as far as we have observed, and there barely visible to the naked eye. Flowers, which are of a bright rose colour, grow at the extremities of the branches, either fingly, or more generally four together; but on the leading branches, the shoot growing out beyond them, the flowers become in consequence axillary. Calyx of four subulate leassets, ciliated at the edge and coloured at the tip; bractes two, close to and like the calyx, but only half the length; there is a third at the base of the very short peduncle, but this we rather regard as the terminal leaf, from the axil of which the peduncle grows; nor is it coloured like the other two. Corolla urceolate: tube about an inch long, dilated and somewhat diaphanous at the base, contracted upwards: laciniæ of the limb ovate-acute with the margins more or less rolled rolled inwards. Filaments almost as fine as a spider's thread: anthers beardless, within the tube. Germen oblong, without glands at the base: stigma dark purple, nearly globular, without the tube.

This plant has very near affinity with ERICA tenuiflora of the Hortus Kewensis, from which it differs, not only in the colour of its flowers, but in having ciliated leaves and an exserted stigma. In many respects it corresponds also with ERICA serrulata, though the form of the corolla removes it into a different section.

Our drawing was made from a plant communicated by Mr. R. Sweet. We have been favoured also with a specimen of the same, from Messrs. Lee and Kennedy, under the name that we have adopted, and from which our description was taken.

Native of the Cape of Good Hope. Flowers in May, June, and July.



1721

AZALEA CALENDULACEA (3.) CROCEA. ORANGE-COLOURED AZALEA.



Class and Order.

PENTANDRIA MONOGYNIA.

Generic Character.

Cor. campanulata. Stam. receptaculo inserta. Caps. 5-locularis.

Specific Character and Synonyms.

AZALEA calendulacea; (subnudislora) foliis oblongo-ovalibus ciliatis: adultis hirsutis, corollæ tubo laciniis breviore

piloso subviscido, calyce villoso.

AZALEA calendulacea; (subnudiflora) foliis oblongis utrinque pubescentibus: adultis hirsutis, sloribus amplis non viscosis, calycis dentibus oblongis, corollæ tubo hirsuto laciniis breviore. Pursh Fl. Am. Sept. 151. Michaux Fl. Am. Bor. 1. p. 151.

(a.) flammea floribus flammeo-calendulaceis.

(3.) crocea; floribus croceis.

AZALEA calendulacea. Hort. Kew. Epit. inter addenda.

The flowers of this variety resemble very much those of Azalea pontica, but are without scent. They are considerably larger than any of the varieties of Azalea nudiflora; and the plant itself forms a lostier shrub. In a genus which is numerous and so exceedingly disposed to run into varieties, it is extremely difficult to find good specific characters; the hairy calyx and tube shorter than the border of the corolla, distinguish it from coccinea, (No. 180.) to which in soliage it is most nearly allied. The slower is not entirely free from clamminess. The slame-coloured variety is said by Mr. Pursh to be, without exception,

the handsomest shrub in North-America. This author refers to BARTRAM's Travels, p. 321, where we find a shrub spoken of with flowers like a Rhododendron, but in fruit more resembling an AZALEA. But this would appear to be very different from either of the above varieties, as the corolla is faid to be white with narrow segments. Mr. WILLIAM BARTRAM, however, and probably with justice, claims the first discovery of this plant, as appears by a specimen in possession of Sir JOSEPH BANKS, collected by that traveller, about the year 1774, accompanied with remarks; in which, in his usual florid style, he observes, that "it is the most brilliant, shewy, and gay slowering shrub, perhaps, in the world; it grows four, six, or eight feet high, increases greatly by suckers, and the slowers make a most splendid show in the vast plains, and on the sides of the hills, in West-Georgia and lower Cherokee country, in the months of April and May. The flowers are of all shades, from a pale cream colour to a splendid golden yellow, orange, and most perfect scarlet or flame colour; and all these colours are sometimes seen on different branches of the same plant, as well as on separate plants, but a rose-blush or purple tint never occurs in the flowers of this species."

Our drawing was made in the beginning of June 1812, from a plant brought over by Mr. Lyons; we received specimens also from Messes. Fraser's American Nursery, and from

Mess. Loddices and Sons.

HEDYSARUM BUPLEURIFOLIUM. HARES-EAR-LEAVED HEDYSARUM.

Class and Order.

DIADELPHIA DECANDRIA.

Generic Character.

Cal. 5-sidus. Cor. carina transverse obtusa. Lomentum articulis 1-spermis, compressis.

Specific Character and Synonyms.

HEDYSARUM bupleurifolium; foliis simplicibus lanceolatis acutis, caule inermi, stipulis scariosis. Sp. Pl. 1051. Willd. 3. p. 1171. Hort. Kew. ed. alt. 4. p. 339. Roxb. Corom. 2. p. 50. t. 194.

ORNITHOPODIUM madaraspatanum, bupleurifolio. Petiv.

Gaz. 18. t. 11. f. 12.

HEDYSARUM gramineum. Willd. Sp. Pl. 3. 1172? Retz. Obs. 5. p. 26. Wendl. Hort. Herrenbus. 1. p. 7. t. 5.

WILLDENOW has expressed a doubt whether the figures of Petiver and Plukenet do not belong to gramineum rather than to bupleurifolium. The latter was probably intended for neither, but is too bad to be referred with certainty to any thing; but Petiver's is really good, for a mere outline, and undoubtedly represents our plant. Hedysarum gramineum in Hortus Herrenhusen, does not appear to be different; and Retzius's description of the same accords both with Roxburgh's and our figure of bupleurifolium. We cannot but conclude therefore that these plants in reality make but one species, and that gramineum ought to be expunged from the system.

A small perennial woody species. Native of the East-Indies; where it grows, according to Roxburgh, among long grass in dry ground; slowering during the wet and cold seasons. With us it requires the heat of the bark stove. Propagated by seeds.





1723

CAMPANULA PUNCTATA. SPOTTED BELL-FLOWER.



Class and Order.

PENTANDRIA MONOGYNIA.

Generic Character.

Cor. campanulata, fundo clauso valvis staminiseris. Stizma cristidum. Caps. insera, poris lateralibus dehiscens.

Specific Character and Synonyms.

CAMPANULA punctata; capsulis trilocularibus obtectis, caule simplici erecto solioso, soliis subpetiolatis, sloribus nutantibus. Willd. Sp. Pl. 1. p. 907.

CAMPANULA punctata; hirsuta, foliis radicalibus petiolatis ovatis acutis serratis, sloribus cernuis interne punctatis vil-

losis. Lamarck Encyc. 1. 579.

CAMPANULA calycibus e tergo lamellis quinque notatis, pedunculis unissoris. Gmel. Sib. 3. p. 155. t. 30.

The CAMPANULA punctata is well represented by GMELIN, in the third volume of the Flora Sibirica; but was never taken up by LINNEUS, nor, we believe, did it ever appear in any general system, till LAMARCK inserted it in the Encyclopedic Botanique.

The spotting of the corolla, being on the inside, shews through rather faintly, but more evidently, when dried, than in

the recent flower.

We were favoured with a living specimen of this very rare plant, the latter-end of February, by our friend A. B. Lambert, Esq. who raised it from Siberian seeds, at his seat at Boyton. A hardy perennial. Native of Siberia; growing in the mountainous open country.

[1724]

SILENE REGIA. SPLENDID CATCH-FLY.

Class and Order.

DECANDRIA TRIGYNIA.

Generic Character.

Cal. monophyllus, ventricosus. Petala 5, unguiculata. Caps. supera, semitrilocularis, apice dehiscens, polysperma.

Specific Character and Synonyms.

SILENE regia, (erecta, viscoso-pubescens) calycibus floris cylindricis, petalis lanceolatis indivisis, genitalibus exertis.

SILENE virginica; var. illinoensis. Michaux Fl. Bor. Am. 1.

p. 272.?

MUSCIPULA regia, Bannisterii. Petiv. Herb. Virg.?

The SILENE regia, though nearly related to virginica, must, we apprehend, be considered as a distinct species; for the latter is described as being decumbent, and having bissid petals. It may perhaps be the variety sound by MICHAUX in the Illinois country; and possibly it may have been the same that BANNISTER sent a design of to the Bishop of London. Whether it be so or not, his name of regia cannot be badly applied to the most splendid plant of the genus. The slowers are represented to us as rivalling in brilliancy the LOBELIA sulgens, a colour scarcely to be imitated by art.

We had not the opportunity of seeing this plant whilst living, but upon examining the dried specimens in Mr. Lambert's herbarium, we find that the petals are sometimes emarginate.

Native of North-America. Found by Mr. NUTTAL, growing spontaneously in great abundance, in the environs of St. Louis, on the Mississippi; from whose seeds our plant was raised in the garden of A. B. Lambert, Esq. at Boyton, where it grew to the height of between two and three seet.





SWAINSONA CORONILLIFOLIA. PURPLE-FLOWERED SWAINSONA.

Class and Order.

DIADELPHIA DECANDRIA.

Generic Character.

Cal. 5-dentatus. Vexillum explanatum, majus Carina obtusa. Stigma terminale. Stylus postice longitudinaliter barbatus; antice imberbis. Legumen turgidum (non vesicarium) Brown.—Swainsona, Salisb.—Loxidium, Venten. dec. gen. nov.

Specific Character and Synonyms.

SWAINSONA coronillifolia; vexillo bicalloso, caule suffruticoso erecto, pedicello leguminis filamentis persistentibus (parum) breviore. Brown in Hort. Kew. ed. alt. 4. p. 327.
SWAINSONA coronillæsolia. Salisb. Parad. Lond. 28.

As this plant is a native of New South-Wales in Australasia, this circumstance, in itself, leads to a suspicion that it ought to be considered as a genus distinct from Colutea, otherwise we own that we should hardly have been satisfied with the characters by which the two genera are attempted to be distinguished. The only contrasted points given in the Hortus Kewensis are, that the stigma in Swainsona is terminal, in Colutea lateral; and the slight difference in the consistence of the Legumen, which appears to us not very remarkable after maturity.

It was undoubtedly impossible to separate Swainsona from Colutea, whilst fruticosa and berbacea, which swerve much more remarkably from the European species, remained attached to the latter. These are consequently raised into

distinct genera by Mr. BROWN.

The other species of this genus has been already figured in the Botanical Magazine, under the name of Colutea (now Swainsona) galegifolia (vide N^m. 792.) Both species, the only ones known in our gardens, though easily distinguished by the colour of their flowers, are botanically characterized, only by the difference of length of the pedicle of the seed-pod.

An ornamental low greenhouse shrub, with herbaceous branches. Communicated by Messrs. Whitley, Brame, and Milne. Introduced in 1802, by the Right Hon. Sir Joseph Banks, Bart. K. B. Flowers most part of the year. Propa-

gated both by feeds and cuttings.

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